Title (en)

SURGICAL IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND SURGERY SYSTEM

Title (de)

VORRICHTUNG ZUR VERARBEITUNG VON CHIRURGIEBILDERN, BILDVERARBEITUNGSVERFAHREN UND CHIRURGIESYSTEM

Title (fr)

DISPOSITIF DE TRAITEMENT D'IMAGE CHIRURGICALE, PROCÉDÉ DE TRAITEMENT D'IMAGE ET SYSTÈME DE CHIRURGIE

Publication

EP 3603479 A4 20200318 (EN)

Application

EP 18774672 A 20180316

Priority

- JP 2017072244 A 20170331
- JP 2018010391 W 20180316

Abstract (en)

[origin: EP3603479A1] The present technique relates to a surgical image processing apparatus, an image processing method, and a surgery system that each enable easy comparison of images acquired before and after updating of software with each other.An image processing part applies an image process by software to a surgical region image, and a display control part controls a display of the surgical region image to which the image process is applied. The image processing part produces a pre-update processed image acquired by applying the image process established before updating the software to the surgical region image and a post-update processed image acquired by applying the image process established after updating the software to the surgical region image, and the display control part controls a display of at least a portion of at least either one of the pre-update processed image or the post-update processed image. The present technique is applicable to a CCU of an endoscopic surgery system.

IPC 8 full level

A61B 1/00 (2006.01); **A61B 1/045** (2006.01); **A61B 90/00** (2016.01); **G06F 11/14** (2006.01); **G06T 1/00** (2006.01); **G06T 7/00** (2017.01); **G16H 30/00** (2018.01); **G16H 30/40** (2018.01); **G16H 40/40** (2018.01); **H04N 5/232** (2006.01); **H04N 7/18** (2006.01); A61B 18/00 (2006.01)

CPC (source: EP US)

A61B 1/000094 (2022.02 - EP US); **A61B 1/000095** (2022.02 - EP US); **A61B 1/0005** (2013.01 - EP); **A61B 1/00057** (2013.01 - EP US); **A61B 90/37** (2016.02 - EP); **G06F 8/63** (2013.01 - EP); **G06F 8/65** (2013.01 - EP US); **G06F 9/451** (2018.01 - EP); **G06T 1/00** (2013.01 - EP); **G06T 7/0014** (2013.01 - US); **G16H 30/40** (2017.12 - EP US); **G16H 40/40** (2017.12 - EP); **H04N 5/2624** (2013.01 - EP US); **H04N 5/2628** (2013.01 - US); **H04N 5/265** (2013.01 - US); **H04N 7/18** (2013.01 - EP); **H04N 23/63** (2023.01 - EP US); **H04N 23/634** (2023.01 - EP); **H04N 23/80** (2023.01 - US); G06F 3/04842 (2013.01 - US); G06F 3/04845 (2013.01 - US); G06F 8/38 (2013.01 - EP); G06F 2203/04803 (2013.01 - US); G06T 2200/24 (2013.01 - US); G06T 2207/10068 (2013.01 - US); G06T 2207/20081 (2013.01 - US); G06T 2207/20092 (2013.01 - US); G06T 2207/30168 (2013.01 - US); G06V 2201/03 (2022.01 - US); H04N 23/555 (2023.01 - US)

Citation (search report)

- [XA] US 2013174042 A1 20130704 - KIM DONG-CHANG [KR], et al
- See references of WO 2018180573A1

Cited by

US11907849B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3603479 A1 20200205; **EP 3603479 A4 20200318**; **EP 3603479 B1 20210428**; CN 110536629 A 20191203; CN 110536629 B 20220415; JP 7115467 B2 20220809; JP WO2018180573 A1 20200206; US 11483473 B2 20221025; US 2021112197 A1 20210415; WO 2018180573 A1 20181004

DOCDB simple family (application)

EP 18774672 A 20180316; CN 201880020194 A 20180316; JP 2018010391 W 20180316; JP 2019509271 A 20180316; US 201816496452 A 20180316